ABSTRACT OF THE DISCLOSURE

A high temperature resistive coating composition includes a pigmenting component, a binder component, and a hardening agent. The pigmenting component includes a spinel of the formula AB_2O_4, in which A is selected from the group consisting of Mg, Fe, Zn, Mn, Cu and Ni, or a combination thereof, and B is selected from the group consisting of Al, Fe and Cr, or a combination thereof. The binder component of the high temperature resistive coating is preferably a polysiloxane material, such as a silicon resin. Moreover, the hardening agent of the high temperature resistive coating includes a finely powdered material selected from the group consisting of diamond powder, BN, WC, SiC, Al_2O_3, AlN and SiO_2. The resistive coating may be advantageously used for coating the interior of a self-cleaning oven, an oven rack, burner grates, and the like, particularly due to its ability to withstand high temperatures.